DESIGN PANEL NO. 12 - 4/17/97

SYSTEM BUILD AND LOAD PHASE 1 THREAD - AL MENENDEZ

OVERVIEW

System Build & Load Phase I thread provides the capability to build and load OS and System Software from the Master CM repositories onto the CLCS test and operational sets. This capability is independent of Test builds yet must support multiple Test builds. This capability also provides a method for identifying repeatable System Builds called a System Configuration Identifier (SCID). The SCID and its revision number, is a repeatable collection of products that support multiple Test builds (TCIDs) on a particular set configuration. This set configuration ranges from a set used for Application Debug, to a partially operational set which may be used for test and integration and finally to a fully operational set.

ISSUE

- System Build & Load Phase I Facilities Requirements - Add connectivity (LON) requirements for SDE-H.
- Will positional login be required for Redstone? TBD.
- Decision to select CLCC CM/CT Tool Survey - Recommendation:
  Option 2.
  - Purchase two Site Licenses at a cost of $48,000.
  - Purchase three days of onsite training for $5,000.
  - The amount of onsite support and training requirements are under consideration.

ACTIONS	ACTIONEE	DUE DATE	STATUS
• Resolve SDE-H concept with respect to System Build & Load capabilities.	A. Menendez	4/24/97	In Work
• Resolve performance metrics and provide insight to load and activation processing.	T. Perry	5/1/97	In Work

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RELIABLE MESSAGING PHASE 2 THREAD - ALEX MORALES

OVERVIEW

Reliable Messages provides the following major capabilities for Redstone:

- Reliable Message re-transmission and status reporting
- Provide logical communication paths in support of Location Transparency
- Incorporate the COTS TYMSERVE NTP Server for network time synchronization
- Investigate/analyze network fault tolerance
- Define and implement an interface approach to Redundancy Management
- Provide performance measurements and data for system modeling
- System and Application Message Writer message distribution recording, retrieval and display
- Assess recording of IPCs and other data types.

REWORKED ISSUES FROM DESIGN PANEL 11 - 3/25/97

- Revise and Re-Assess System Message Design Concept.
- Reconcile the SOW with the Thread Definition Team
- Change Labor estimates from EP to Labor Months
- Change schedule from Thread to CSCI structure
- Add Details to the following sections:
  - Test Requirements
  - Training Requirements
  - Procurements.

ACTION	ACTIONEE	DUE DATE	STATUS
No Action Required			

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DATA FUSION THREAD - BRIAN BATEMAN

OVERVIEW

Data Fusion involves computations using constants, measurement values, health values or other fusion values. The result of the computation is a value which has a type equal to the data fusion Function Designator (FD) found in the CLCS Databank. Each fusion FD found in the databank has the same attributes that any other FD of the same type would have with the exception that a Fusion FD does not have a hardware record but does have a fusion algorithm table associated with it. The user may use the CLCS data Fusion Editor to aid in the input of the fusion algorithm and associated information.

The Data Fusion Thread establishes the CLCS capability to provide information using multiple FDs. This thread will support initial Data Fusion editing, loading, processing, distribution, system viewing, logging and retrieving.

REWORKED ISSUES FROM DESIGN PANEL 11 - 3/26/97

Update to Statement of Work for the Data Fusion Thread

- Emphasis on COTS solution.

ACTION	ACTIONEE	DUE DATE	STATUS
No action required			

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DATA DISTRIBUTION THREAD - BRIAN BATEMAN

OVERVIEW

- The Data Distribution Thread supports end-to-end data flow of FDs. It provides the mechanism for the system to move data values between most elements of the CLCS, which includes the DDPs, CCPs, HCIs and SDCs. It supports retrieval of FD data by user applications and user displays.

REWORKED ISSUES FROM DESIGN PANEL 11 - 3/26/97

Updates to Statement of Work for the Data Distribution Thread:

- DDP Data Merger Function
  - Collect Application Change Data packets from all CCPs at System synchronous rate.
    No Application Change Data packets until Thor Delivery.
  - Merge Gateway Change Data and Application Change Data in to a single a stream ordered to the nearest 0.1 ms.
    No Application Change Data until Thor Delivery.
  - Place requested FDs in queues for the Data Constraint Function.
    Data Constraint Function is not part of Redstone Delivery.
  - Define and provide a method to send System Default Display Data Attribute Values.
    A placeholder will be reserved in the CVT for default Display Data Attribute values. Setting mechanism will be defined for the Thor Delivery.

- CCP Data Function
  - Provide an output queue for user Application Derived FDs and transmits them to the DDP at system synchronous rate.
    No user Application Derived FDs to transmit in Redstone.

- SDC Data Function
  - For debug use - Record raw Gateway Change Data Packets from all gateways and Application Change Data Packets from all CCPs on the RTCN.
    No Application Change Data Packets until Thor Delivery

ACTION	ACTIONEE	DUE DATE	STATUS

No action required.